

# Ali Ameli

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LinkedIn: <https://www.linkedin.com/in/aliameli/>

Portfolio: <https://aameli1376.github.io/github-portfolio/>

Experienced Software Developer in Data Engineering/Science skilled in designing and implementing enterprise-wide solutions with focused on designing suitable test cases and implementing the product SDLC. Ready to bring 5 years of progressive experience and take on a challenging new role with growth potential.

## SKILLS

Knowledge: Machine Learning, Software Development Life Cycle, LLMs, Data Visualization, Database Systems, Agile Scrum

Programming Languages: Python, R, C, C++, Java, Scala, JavaScript, SQL (PostgreSQL, MySQL), NoSQL (MongoDB), Vertex AI,

Libraries: NumPy, Junit, Mockito, Pandas, OpenCV, Scikit-Learn, TensorFlow, Keras, NLTK, SciPy, Matplotlib, Plotly, Seaborn

Tools and Technologies: Cloud Platforms (AWS, GCP), Workflow Management (SnakeMake), Data Warehousing (Snowflake, BigQuery), Version Control (Git, GitHub), Apache Kafka, Apache Spark, EMR

## EXPERIENCE

### Senior Software Developer (Data Platform Team)

Sep 2024 - Present

Nasdaq-Verafin, St. John's, NL, Canada

- Designed and implemented optimized data pipelines to improve the performance and scalability of the data platform, utilizing Apache Spark.
- Developed and refactored critical components of the data processing framework.
- Created comprehensive unit tests for the data pipeline infrastructure, ensuring robust test coverage and reliability, with a focus on Spark and functional testing best practices.
- Collaborated with cross-functional teams to support data integration and processing needs, leveraging expertise in cloud-based data engineering solutions on AWS.

### AI/ML Engineer

Jun 2024 - Jul 2024

Visual Miner, Toronto, ON, Canada

- Engineered and managed datasets using Python and NLP libraries, ensuring high-quality data preprocessing for machine learning models.
- Developed rule-based chatbots and enhanced them with LLM capabilities, utilizing decision trees, Vertex AI, and Gemini 1.5 Pro for accurate immigration recommendations.
- Deployed, tested, and optimized chatbots on Google Cloud Platform, improving system performance and user experience.

**Software Developer (Data Engineering)**

Nov 2022 - Nov 2023

Alooki Inc, St. John's, NL, Canada

- Designed and implemented ETL/ELT processes and managed databases (PostgreSQL/MySQL), significantly enhancing data processing efficiency and ensuring scalable data storage.
- Developed interactive dashboards using Google Looker Studio and Tableau, streamlining data accessibility and improving decision-making.
- Migrated on-premises data solutions to Google Cloud Platform (GCP) and optimized cloud resources, boosting performance and reducing operational costs by 10 %.

**NSERC Research Assistant**

Sep 2020 - Dec 2022

Memorial University of Newfoundland, St. John's, NL, Canada

- Developed algorithms for cleaning and preprocessing large genomics datasets (GWAS) on HPC systems, improving data integrity and quality.
- Implemented feature selection and machine learning models for Parkinson's Disease datasets, enhancing diagnostic accuracy and identifying crucial biomarkers.
- Utilized tools like SRAToolkit and PLINK to streamline the processing of large-scale genomics data, boosting efficiency and accessibility by 5 %.

**Software Developer (Data Engineering)**

Jan 2015 - Jan 2019

Jarf Tadbir Toos (JTT) Inc, Mashhad, Iran

- Developed scalable data pipelines using Python and Apache Spark, enhancing data processing speed and efficiency.
- Utilized AWS tools (EC2, S3, Redshift, Lambda, EMR) to create a robust infrastructure for data storage and processing, reducing operational costs.
- Collaborated with cross-functional teams to deliver data solutions that met business requirements, improving workflow efficiency.

**EDUCATION****Master of Science (M.S.) - Computer Science**

Sep 2020 - Dec 2022

Memorial University of Newfoundland, St. John's, NL, Canada

- Thesis: Assessing the reproducibility of machine-learning-based biomarker discovery in Parkinson's disease 2024.

**Bachelor of Engineering (B.E.) - Computer Engineering**

Sep 2015 - Dec 2019

Ferdowsi University of Mashhad, Mashhad, Iran

- Thesis: Design and implementation of a recommender system for TRIVAGO WEBSITE.

**AWARDS & CERTIFICATIONS**

- Alberta Machine Intelligence Institute (Amii) 2023 Bursary for Upper Bound AI Week
- Academic Excellence Award Memorial University of Newfoundland
- Certificate of Participation Study and Stay NL Program
- Volunteer Incentive Program (Bronze, Silver, Gold Level Award)
- Certified AWS Cloud Practitioner